

2-Cyclohexylcyclohexanol

Other names:	[1,1'-Bicyclohexyl]-2-ol [Bicyclohexyl]-2-ol Cyclohexanol, 2-cyclohexyl-
Inchi:	InChI=1S/C12H22O/c13-12-9-5-4-8-11(12)10-6-2-1-3-7-10/h10-13H,1-9H2
InchiKey:	YTWWBKKPWACPPB-UHFFFAOYSA-N
Formula:	C12H22O
SMILES:	OC1CCCCC1C1CCCCC1
Mol. weight [g/mol]:	182.30
CAS:	6531-86-8

Physical Properties

Property code	Value	Unit	Source
gf	-45.47	kJ/mol	Joback Method
hf	-354.94	kJ/mol	Joback Method
hfus	15.67	kJ/mol	Joback Method
hvap	59.53	kJ/mol	Joback Method
log10ws	-3.53		Crippen Method
logp	3.118		Crippen Method
mcvol	164.090	ml/mol	McGowan Method
pc	2767.17	kPa	Joback Method
tb	600.57	K	Joback Method
tc	814.45	K	Joback Method
tf	296.34	K	Joback Method
vc	0.592	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.49	J/mol×K	600.57	Joback Method
cpg	556.76	J/mol×K	778.80	Joback Method
cpg	540.37	J/mol×K	743.16	Joback Method
cpg	522.78	J/mol×K	707.51	Joback Method
cpg	503.97	J/mol×K	671.86	Joback Method
cpg	483.88	J/mol×K	636.22	Joback Method

cpg	571.98	J/mol×K	814.45	Joback Method
dvisc	0.0000991	Pa×s	600.57	Joback Method
dvisc	0.0001610	Pa×s	549.87	Joback Method
dvisc	0.0002887	Pa×s	499.16	Joback Method
dvisc	0.0005908	Pa×s	448.45	Joback Method
dvisc	0.0014508	Pa×s	397.75	Joback Method
dvisc	0.0046330	Pa×s	347.05	Joback Method
dvisc	0.0220117	Pa×s	296.34	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6531868&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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